



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE100109T1504						
					Type: M3AA 090LD 4					Product Code: 3GAA092315-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	1,5	1435	5,70	0,76	S1
Insul.cl.F					400	Y 50	1,5	1435	3,30	0,76	S1
IP55					460	Y 60	1,5	1750	3,00	0,72	S1
Eff class IE2					50Hz : IE2 - 84,2(100%) - 84,1(75%) - 81,9(50%)						
60Hz : IE2 - 84,9(100%)											
Resistance					Insulation resistance at 24,2 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 16,6 °C					Torque 160 % 15s	
U ₁ - W ₁					5,85500 Ω					Speed 120 % 120s	
V ₁ - W ₁					5,85400 Ω						
					5,85500 Ω						
					High-voltage test winding 2400 V					60 s	
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]		
No load test		400 Y	50	2,3	0,15		1500	0,10			
Locked rotor test		61,7 Y	50	3,3	0,22		0	0,63			
Thermal test (100% load)	9,9	400 Y	50	3,4	1,79	1,50	1440	0,75	84,00		
Partial load points:											
~75% load	7,4	400 Y	50	2,9	1,35	1,13	1455	0,67	83,60		
~50% load	4,9	400 Y	50	2,5	0,92	0,75	1471	0,53	81,10		
~25% load	2,4	400 Y	50	2,2	0,53	0,38	1485	0,34	71,90		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					26,3	3			1 Resistance		
Frame :					18,3	3			2 Thermometer		
Bearing D-end :					20,9	3			3 Thermocouples		
Ambient Temperature :					25	3					
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.											
PLL determined from residual loss.											
On behalf of customer											
On behalf of manufacturer			Date of test			21.1.2010					
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain								Telephone		+34 93 728 85 00	
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